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FIG.1

FIG.2

(A)

(B)

EXTENT

(C)

(D)

(E)

FIG.3

(A)

EXTENT

(B)

EXTENT
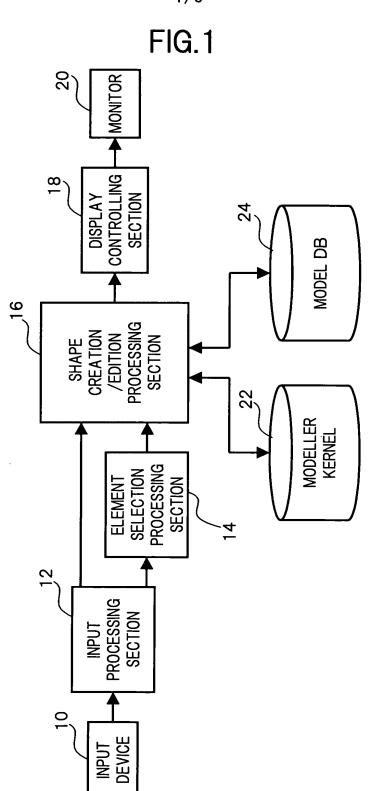
TITLE: GRAPHICAL ELEMENT SELECTION
PROGRAM
INVENTORS: Terutoshi TAGUCHI
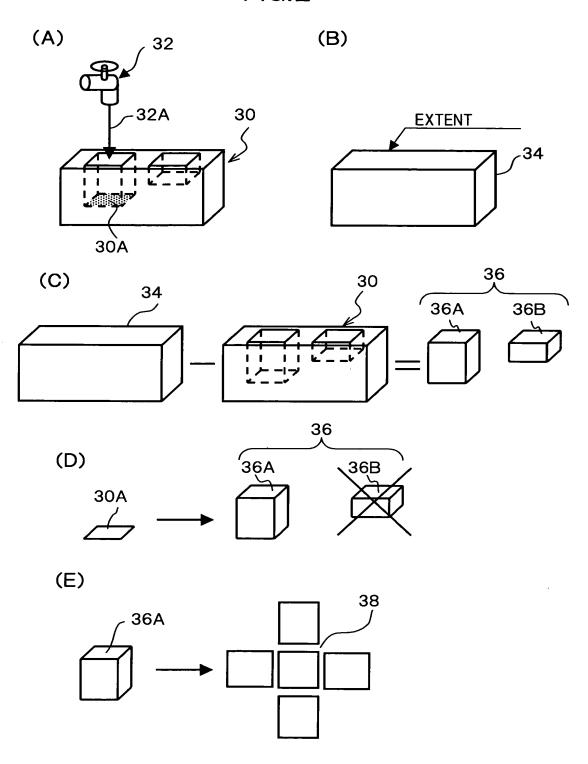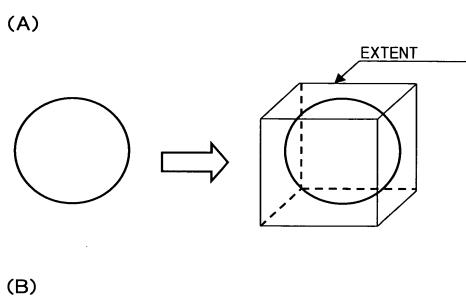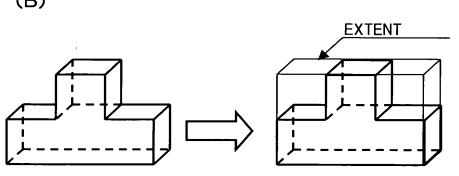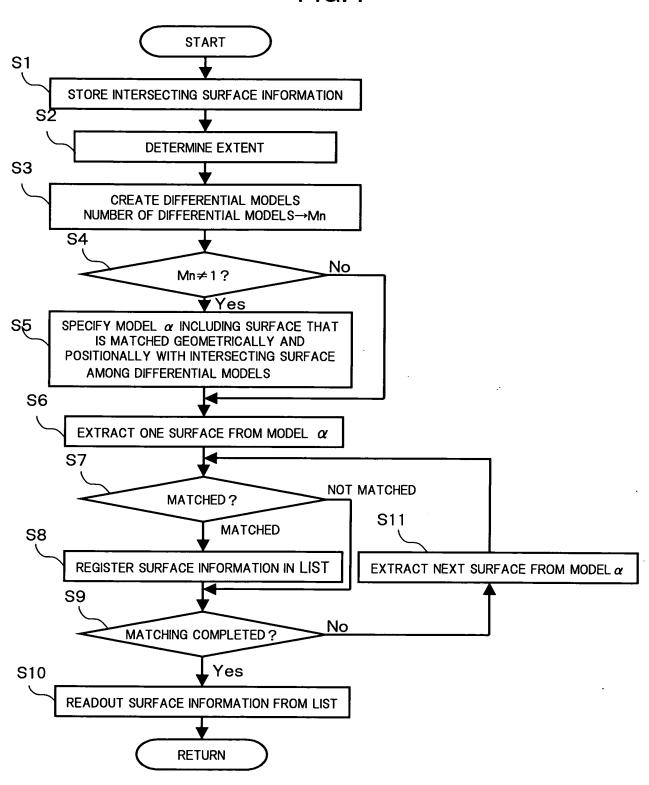SERIAL NO.:
DOCKET NO.: 1344.1132

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FIG.4

```
                    ( START )
                        │
S1                      ▼
    ┌──────────────────────────────────────────┐
    │   STORE INTERSECTING SURFACE INFORMATION  │
    └──────────────────────────────────────────┘
S2                      │
                        ▼
        ┌──────────────────────────────┐
        │       DETERMINE EXTENT        │
        └──────────────────────────────┘
S3                      │
                        ▼
    ┌──────────────────────────────────────────┐
    │       CREATE DIFFERENTIAL MODELS          │
    │   NUMBER OF DIFFERENTIAL MODELS→Mn         │
    └──────────────────────────────────────────┘
S4                      │
                        ▼
              ◇ Mn≠1 ? ◇ ────── No
                    │ Yes              │
S5                  ▼                  │
    ┌──────────────────────────────────────────┐  │
    │  SPECIFY MODEL α INCLUDING SURFACE THAT   │  │
    │   IS MATCHED GEOMETRICALLY AND            │  │
    │  POSITIONALLY WITH INTERSECTING SURFACE   │  │
    │      AMONG DIFFERENTIAL MODELS            │  │
    └──────────────────────────────────────────┘  │
S6                      │◄─────────────────────────┘
                        ▼
    ┌──────────────────────────────────────────┐
    │    EXTRACT ONE SURFACE FROM MODEL α       │
    └──────────────────────────────────────────┘
S7                      │◄──────────────────────────────┐
                        ▼                                │
              ◇ MATCHED ? ◇ ──── NOT MATCHED             │
                    │ MATCHED           │                │
S8                  ▼              S11  │                │
    ┌────────────────────────────────┐ ┌──────────────────────────────────┐
    │ REGISTER SURFACE INFORMATION    │ │ EXTRACT NEXT SURFACE FROM MODEL α │
    │ IN LIST                         │ └──────────────────────────────────┘
    └────────────────────────────────┘                  ▲
S9                      │                                │
                        ▼                                │
         ◇ MATCHING COMPLETED ? ◇ ──── No ───────────────┘
                    │ Yes
S10                 ▼
    ┌──────────────────────────────────────────┐
    │  READOUT SURFACE INFORMATION FROM LIST    │
    └──────────────────────────────────────────┘
                        │
                        ▼
                    ( RETURN )
```

FIG.5

START

S21

FINALIZATION
OPERATION? — Yes → END

No

S22

MOVED? — No →

Yes

S23

CONCAVE PORTION
SELECTION PROCESS

FIG.6

START

S31

FINALIZATION
OPERATION? — Yes → END

No

S32

MOVED? — No →

Yes

S33

STOPPED? — No →

Yes

S34

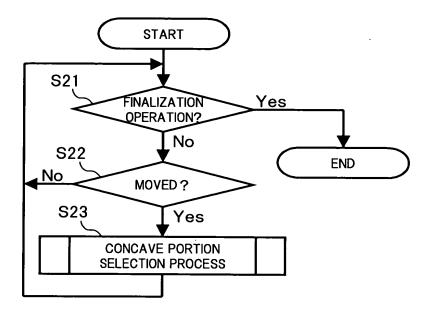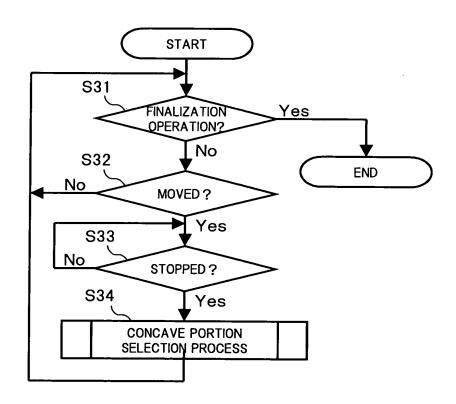CONCAVE PORTION
SELECTION PROCESS

TITLE: GRAPHICAL ELEMENT SELECTION
PROGRAM
INVENTORS: Terutoshi TAGUCHI
SERIAL NO.:
DOCKET NO.: 1344.1132

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FIG.7

START

S41 MOVED ?
No →
Yes

S42 STOPPED ?
No
Yes

S43 CHANGE DISPLAY COLOR
OF INTERSECTING SURFACE

S44 FINALIZATION
OPERATION?
No
Yes

S45 CONCAVE PORTION
SELECTION PROCESS

END